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ABSTRACT OF THE DISCLOSURE

A method and system are provided for measurement of vibration of an object utilizing a non-contact imaging sensor such as a video camera. An object which does not already have a pair of spaced-apart marks is marked with two parallel lines spaced apart from one another a known, nominal distance. The two lines are perpendicular to an imaging axis of the camera. As such, when the object with the parallel lines is moved toward or away from the video camera, the lines on the object appear to move as two parallel lines in the image plane of the camera. As the object moves or vibrates along the imaging axis, the nominal image plane distance between the two lines changes. This apparent change in the distance between the parallel lines in the image plane is calibrated to the physical movement of the object in space due to deformation or rigid body motions.